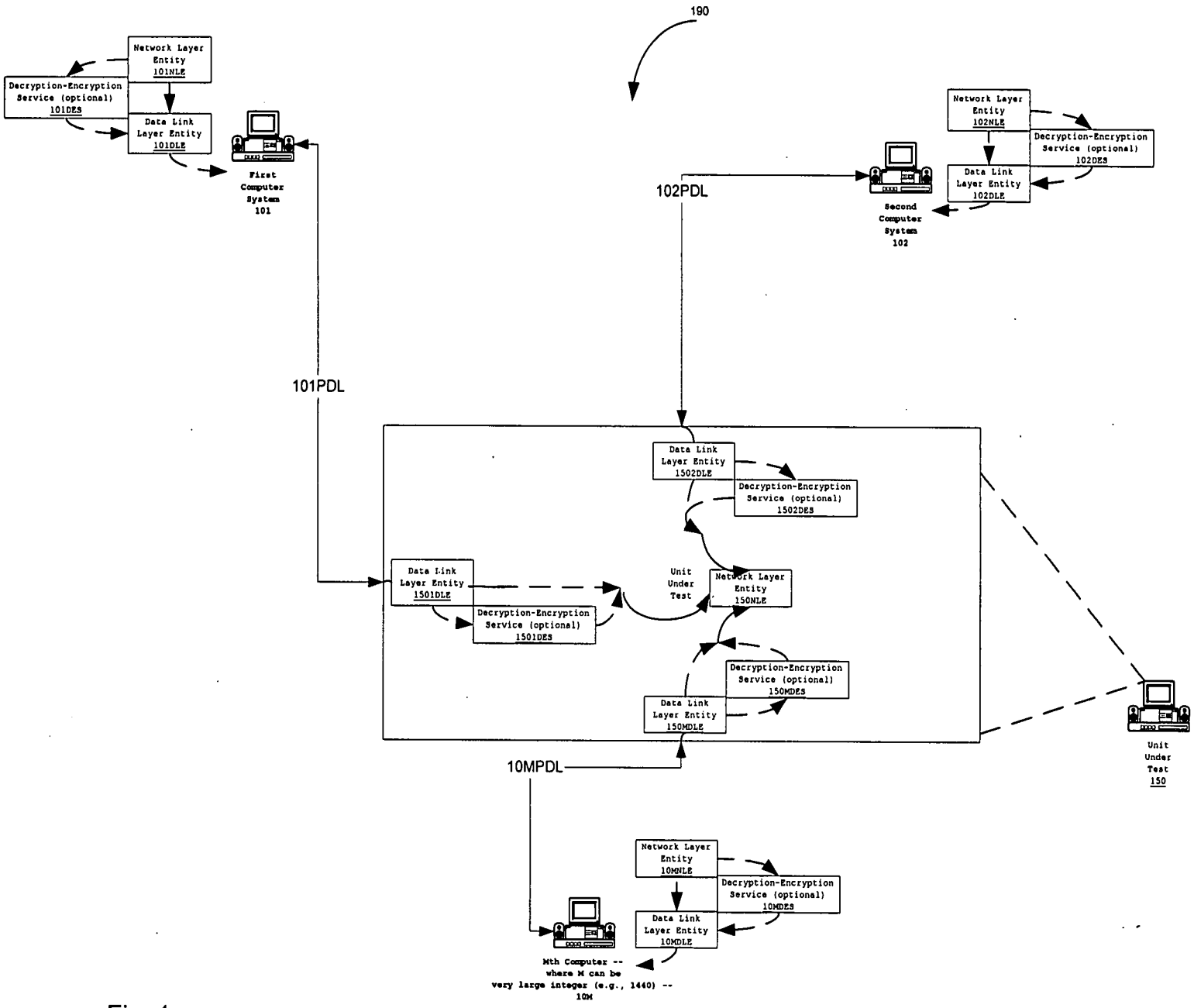

190
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Data Link Layer Entity 101DLE
First Computer System 101
101PDL
102PDL
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Data Link Layer Entity 102DLE
Second Computer System 102
Data Link Layer Entity 1502DLE
Decryption-Encryption Service (optional) 1502DES
Data Link Layer Entity 1501DLE
Decryption-Encryption Service (optional) 1501DES
Unit Under Test
Network Layer Entity 150NLE
Decryption-Encryption Service (optional) 150MDES
Data Link Layer Entity 150MDLE
Unit Under Test 150
10MPDL
Network Layer Entity 10MNLE
Decryption-Encryption Service (optional) 10MDES
Data Link Layer Entity 10MDLE
Mth Computer -- where M can be very large integer (e.g., 1440) -- 10M

Fig. 1

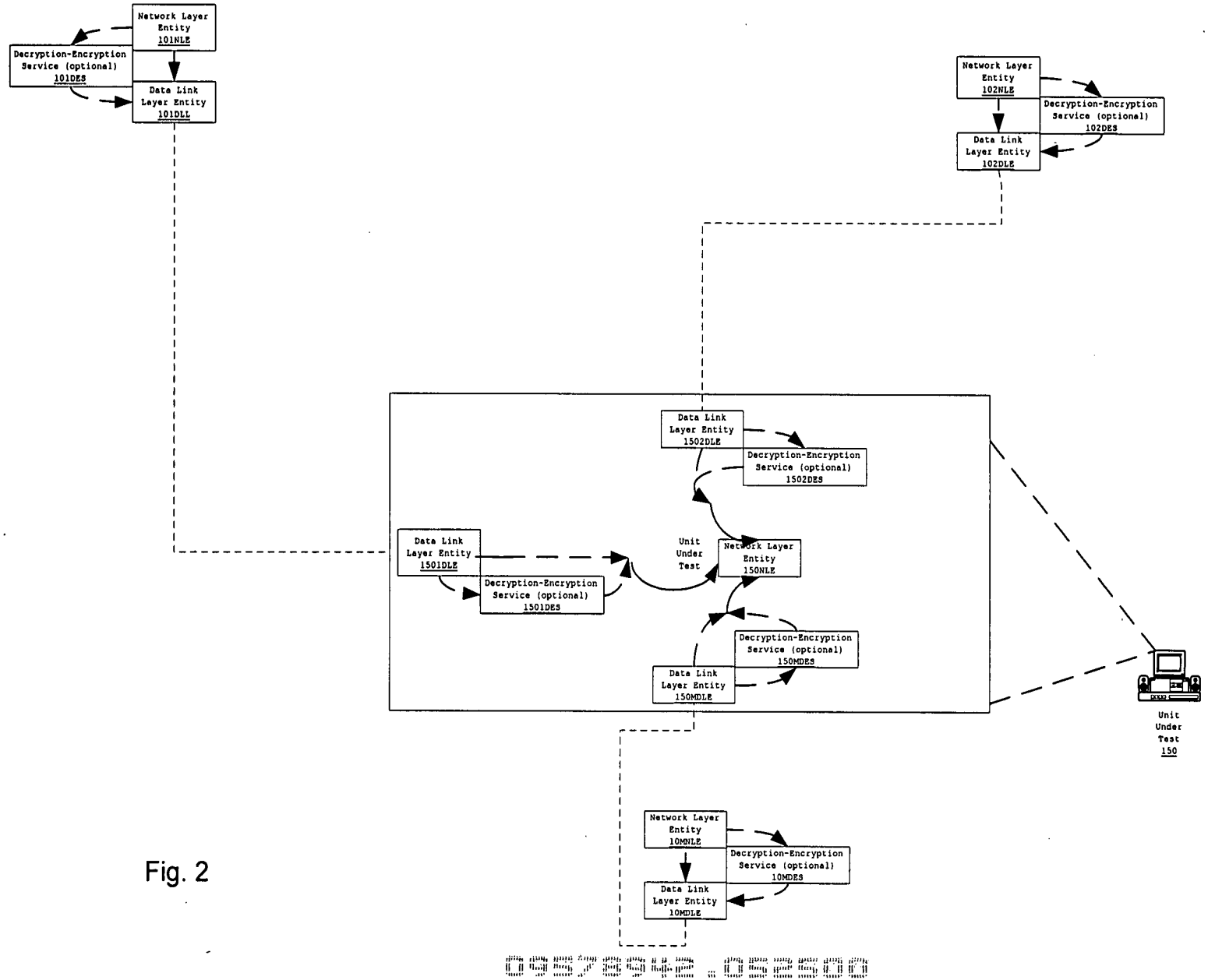

Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Data Link Layer Entity 101DLL
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Data Link Layer Entity 102DLE
Data Link Layer Entity 1502DLE
Decryption-Encryption Service (optional) 1502DES
Data Link Layer Entity 1501DLE
Decryption-Encryption Service (optional) 1501DES
Unit Under Test
Network Layer Entity 150NLE
Decryption-Encryption Service (optional) 150MDES
Data Link Layer Entity 150MDLE
Unit Under Test 150
Network Layer Entity 10MNLE
Decryption-Encryption Service (optional) 10MDES
Data Link Layer Entity 10MDLE

Fig. 2

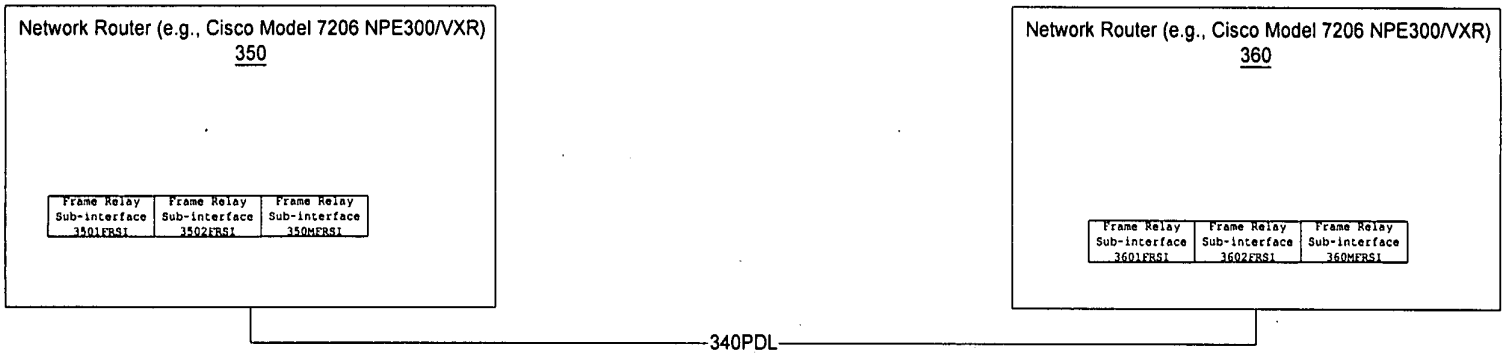

Network Router (e.g., Cisco Model 7206 NPE300/VXR)
350
Frame Relay Sub-interface 3501FRSI
Frame Relay Sub-interface 3502FRSI
Frame Relay Sub-interface 350MFRSI
Network Router (e.g., Cisco Model 7206 NPE300/VXR)
360
Frame Relay Sub-interface 3601FRSI
Frame Relay Sub-interface 3602FRSI
Frame Relay Sub-interface 360MFRSI
340PDL

Fig. 3

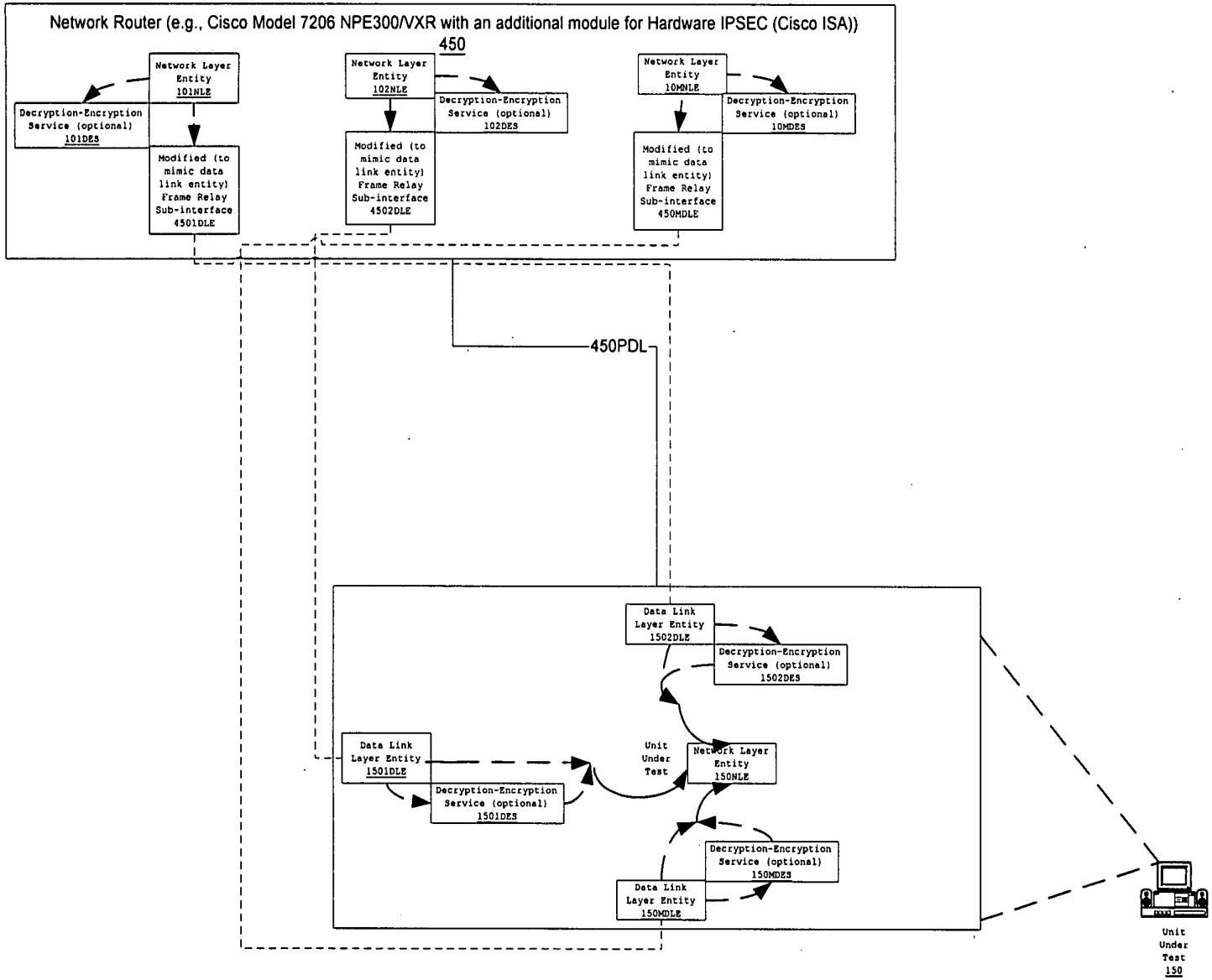

Network Router (e.g., Cisco Model 7206 NPE300/VXR with an additional module for Hardware IPSEC (Cisco ISA))
450
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Modified (to mimic data link entity) Frame Relay Sub-interface 4501DLE
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Modified (to mimic data link entity) Frame Relay Sub-interface 4502DLE
Network Layer Entity 10MNLE
Decryption-Encryption Service (optional) 10MDES
Modified (to mimic data link entity) Frame Relay Sub-interface 450MDLE
450PDL
Data Link Layer Entity 1502DLE
Decryption-Encryption Service (optional) 1502DES
Data Link Layer Entity 1501DLE
Decryption-Encryption Service (optional) 1501DES
Unit Under Test
Network Layer Entity 150NLE
Decryption-Encryption Service (optional) 150MDES
Data Link Layer Entity 150MDLE
Unit Under Test 150

Fig. 4

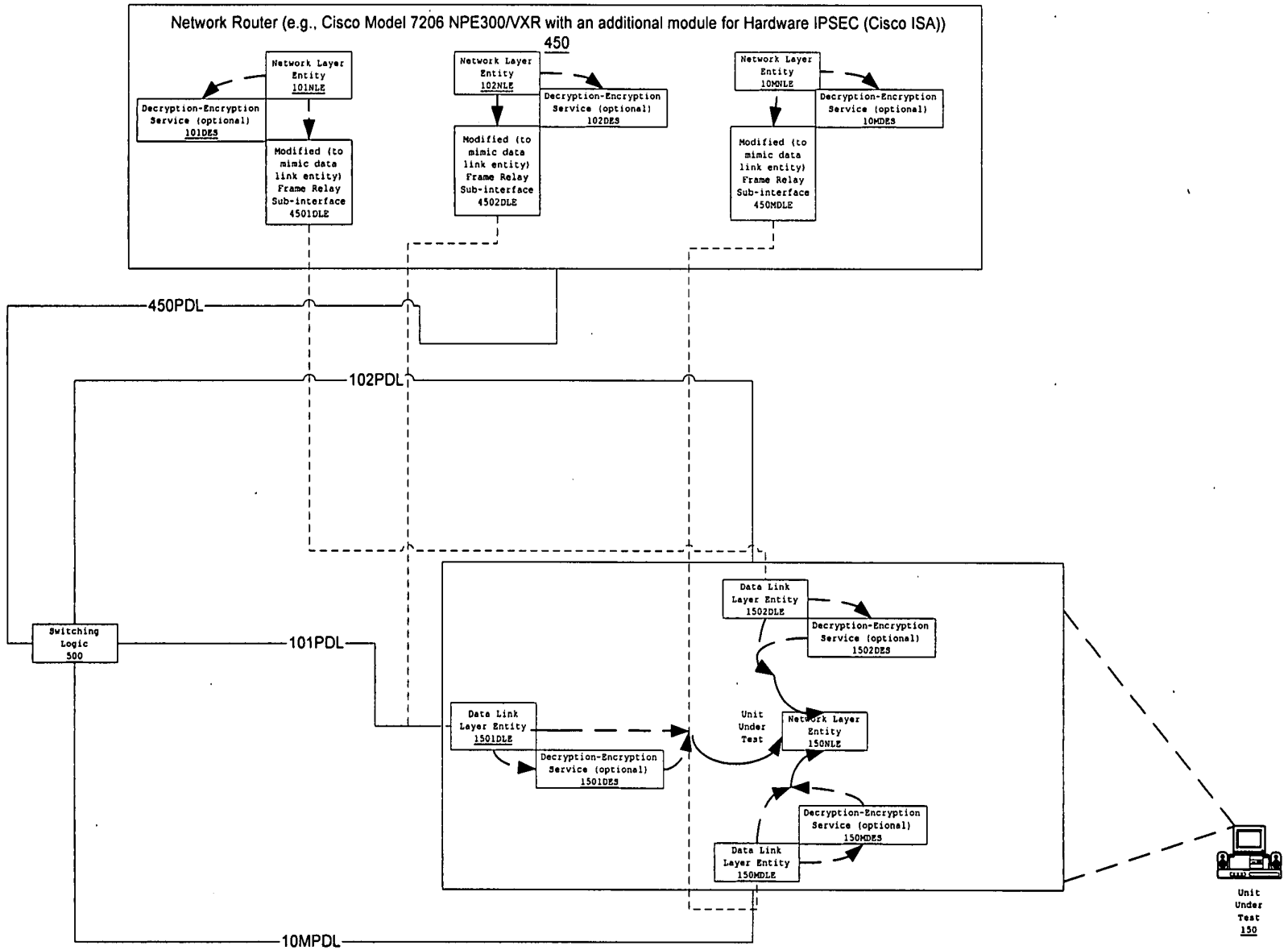

Network Router (e.g., Cisco Model 7206 NPE300/VXR with an additional module for Hardware IPSEC (Cisco ISA))
450
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Modified (to mimic data link entity) Frame Relay Sub-interface 4501DLE
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Modified (to mimic data link entity) Frame Relay Sub-interface 4502DLE
Network Layer Entity 10MNLE
Decryption-Encryption Service (optional) 10MDES
Modified (to mimic data link entity) Frame Relay Sub-interface 450MDLE
450PDL
102PDL
101PDL
10MPDL
Switching Logic 500
Data Link Layer Entity 1502DLE
Decryption-Encryption Service (optional) 1502DES
Data Link Layer Entity 1501DLE
Decryption-Encryption Service (optional) 1501DES
Unit Under Test
Network Layer Entity 150NLE
Decryption-Encryption Service (optional) 150MDES
Data Link Layer Entity 150MDLE
Unit Under Test 150

Fig. 5

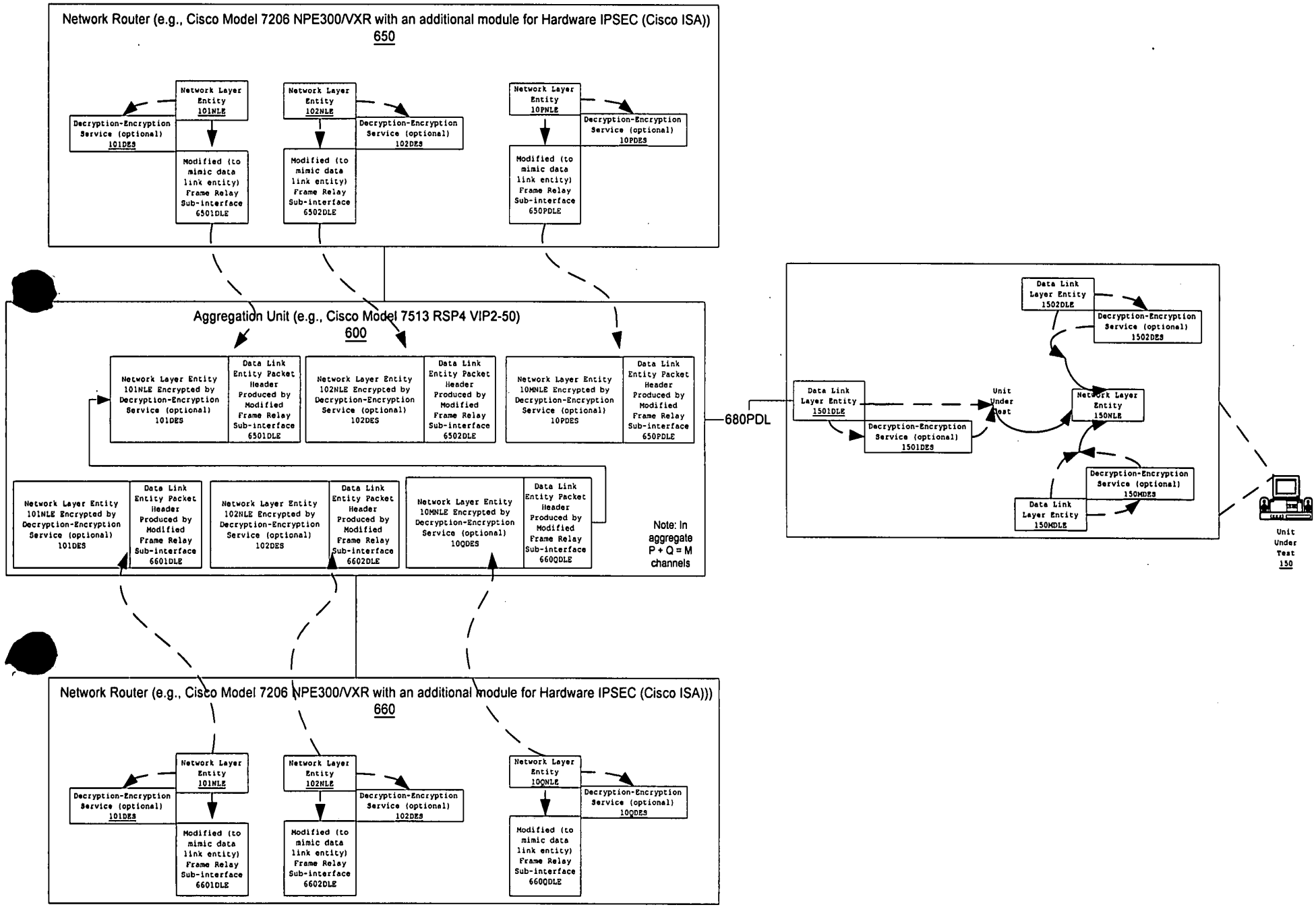
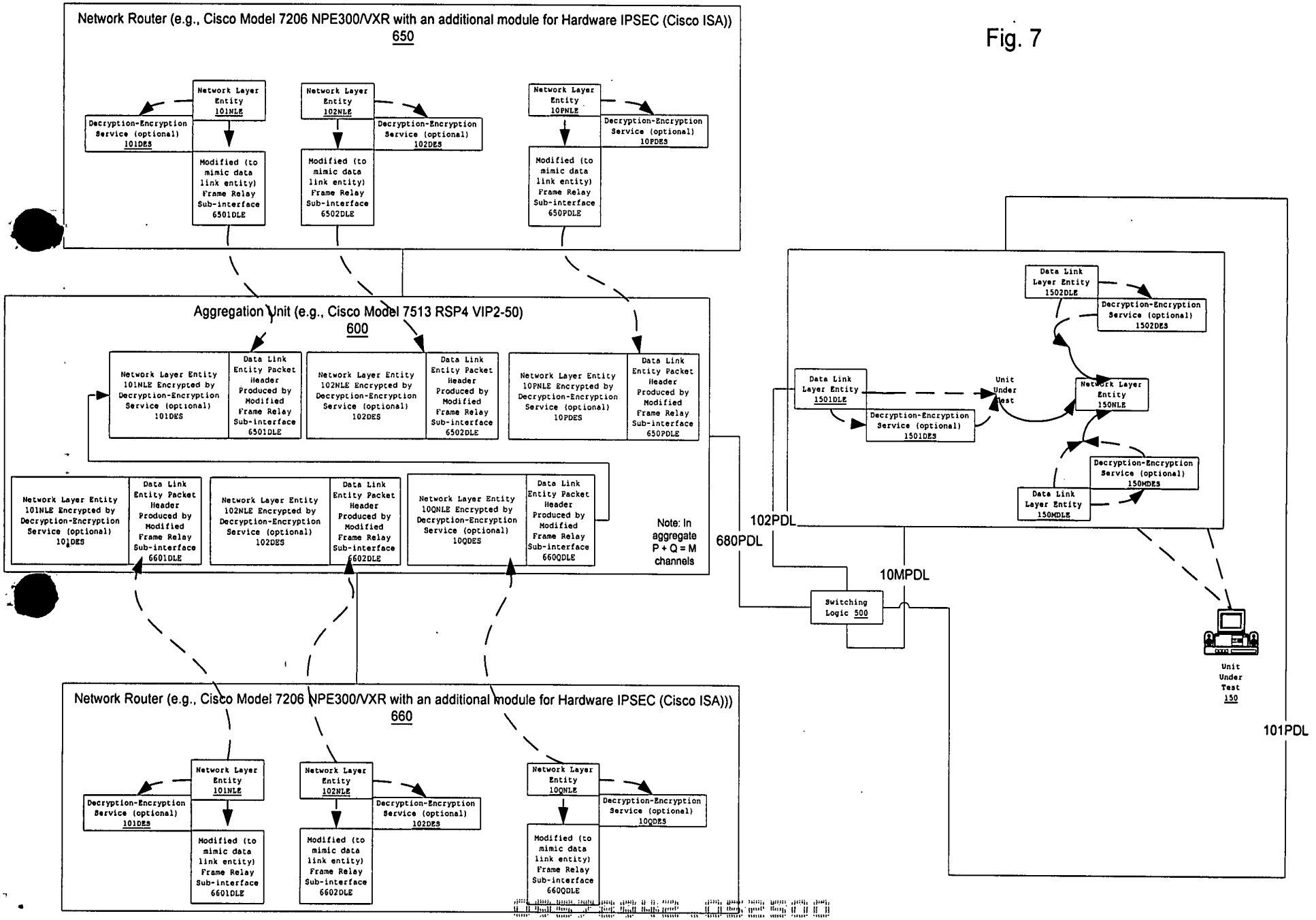

Network Router (e.g., Cisco Model 7206 NPE300/VXR with an additional module for Hardware IPSEC (Cisco ISA))
650
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6501DLE
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6502DLE
Network Layer Entity 10PNLE
Decryption-Encryption Service (optional) 10PDES
Modified (to mimic data link entity) Frame Relay Sub-interface 650PDLE
Aggregation Unit (e.g., Cisco Model 7513 RSP4 VIP2-50)
600
Network Layer Entity 101NLE Encrypted by Decryption-Encryption Service (optional) 101DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6501DLE
Network Layer Entity 102NLE Encrypted by Decryption-Encryption Service (optional) 102DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6502DLE
Network Layer Entity 10MNLE Encrypted by Decryption-Encryption Service (optional) 10PDES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 650PDLE
Network Layer Entity 101NLE Encrypted by Decryption-Encryption Service (optional) 101DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6601DLE
Network Layer Entity 102NLE Encrypted by Decryption-Encryption Service (optional) 102DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6602DLE
Network Layer Entity 10MNLE Encrypted by Decryption-Encryption Service (optional) 10QDES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 660QDLE
Note: In aggregate P + Q = M channels
680PDL
Data Link Layer Entity 1502DLE
Decryption-Encryption Service (optional) 1502DES
Data Link Layer Entity 1501DLE
Unit Under Test
Decryption-Encryption Service (optional) 1501DES
Network Layer Entity 150NLE
Decryption-Encryption Service (optional) 150MDES
Data Link Layer Entity 150MDLE
Unit Under Test 150
Network Router (e.g., Cisco Model 7206 NPE300/VXR with an additional module for Hardware IPSEC (Cisco ISA)))
660
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6601DLE
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6602DLE
Network Layer Entity 10QNLE
Decryption-Encryption Service (optional) 10QDES
Modified (to mimic data link entity) Frame Relay Sub-interface 660QDLE

Fig. 6

Fig. 7


Network Router (e.g., Cisco Model 7206 NPE300/VXR with an additional module for Hardware IPSEC (Cisco ISA))
650
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6501DLE
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6502DLE
Network Layer Entity 10PNLE
Decryption-Encryption Service (optional) 10PDES
Modified (to mimic data link entity) Frame Relay Sub-interface 650PDLE
Aggregation Unit (e.g., Cisco Model 7513 RSP4 VIP2-50)
600
Network Layer Entity 101NLE Encrypted by Decryption-Encryption Service (optional) 101DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6501DLE
Network Layer Entity 102NLE Encrypted by Decryption-Encryption Service (optional) 102DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6502DLE
Network Layer Entity 10PNLE Encrypted by Decryption-Encryption Service (optional) 10PDES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 650PDLE
Network Layer Entity 101NLE Encrypted by Decryption-Encryption Service (optional) 101DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6601DLE
Network Layer Entity 102NLE Encrypted by Decryption-Encryption Service (optional) 102DES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 6602DLE
Network Layer Entity 10QNLE Encrypted by Decryption-Encryption Service (optional) 10QDES
Data Link Entity Packet Header Produced by Modified Frame Relay Sub-interface 660QDLE
Note: In aggregate P + Q = M channels
Network Router (e.g., Cisco Model 7206 NPE300/VXR with an additional module for Hardware IPSEC (Cisco ISA)))
660
Network Layer Entity 101NLE
Decryption-Encryption Service (optional) 101DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6601DLE
Network Layer Entity 102NLE
Decryption-Encryption Service (optional) 102DES
Modified (to mimic data link entity) Frame Relay Sub-interface 6602DLE
Network Layer Entity 10QNLE
Decryption-Encryption Service (optional) 10QDES
Modified (to mimic data link entity) Frame Relay Sub-interface 660QDLE
102PDL
680PDL
10MPDL
Switching Logic 500
Data Link Layer Entity 1502DLE
Decryption-Encryption Service (optional) 1502DES
Data Link Layer Entity 1501DLE
Unit Under Test
Decryption-Encryption Service (optional) 1501DES
Network Layer Entity 150NLE
Decryption-Encryption Service (optional) 150MDES
Data Link Layer Entity 150MDLE
Unit Under Test 150
101PDL